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An
Inaugural Essay
on
Hepatitis.
Presented to the
Medical Professors
Of the University of Pennsylvania.
For the degree of
Doctor of Medicine.
By John S. Geier, of Charleston, S.C.
Philadelphia.
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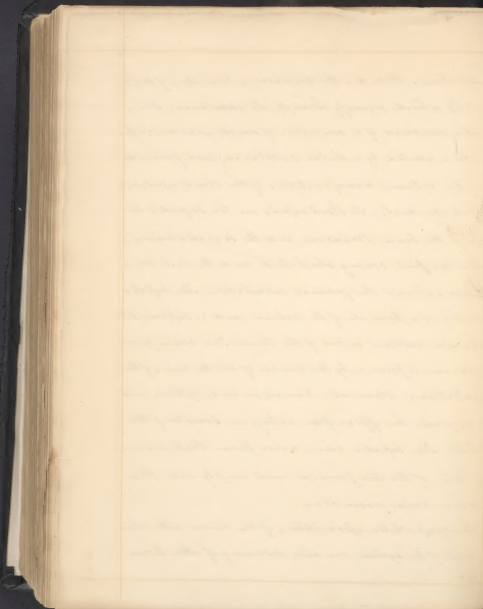
Hepatitis.

Before entering on the consideration of this disease, I shall notice briefly the structure and situation of the liver, and its more important connections with the rest of the system.

This organ occupies the right hypochondriac, the upper portions of the epigastric, and a small part of the left hypochondriac regions. Its superior convex surface is closely applied to the diaphragm to which it is attached by several processes of peritoneum called its ligaments. It is connected to the stomach below by another effusion of peritoneum, the lesser omentum. The same membrane is continued over its surface, forming for it a complete coat. The right extremity of this organ is very thick, extending downwards to the margin of the ribs; while the left tapers to a thin edge, and lies in contact with the stomach. The liver is extremely vascular, and very complex in its struc-

structure. Beside the numerous branches of vessels, which ramify through its substance, it is also composed of a congeries of small glandular tubules, united by cellular substance, and formed by the extreme ramification of the blood vessels and biliary ducts. Its blood vessels are the hepatic artery, the vena portarum, and the hepatic veins. The two first convey blood to it, and the last returns it into the general circulation. The hepatic artery is a branch of the aorta, and is supposed to be the nutrient vessel of the liver. The vena portarum is formed by the union of all the veins of the intestines, stomach, pancreas and spleen, and performs the office of an artery, in secreting the bile. The hepatic veins arise from the termination of the two former, and empty into the vena cava superior.

The sympathetic associations of the liver with other parts of the system, are also deserving of attention.



since they throw some light on the anomalous symptoms which arise in diseases of this organ.

The sympathy between the liver and brain is familiar to every practitioner, headache, vertigo, & a disturbed state of mind being almost uniformly present in hepatic disorders.

Not less so, is the consent between the liver and stomach. This is seen in hepatitis, in which inflammation, coinciding with dyspeptic symptoms are common attendants.

The last of these sympathies which I shall notice, is that which exists between the liver & the external surface of the body. This is one of the most important, as it explains the modes of origin of two very common causes of hepatic derangements, dry heat and sudden changes of temperature.

When we contemplate the structure of the liver, its immenso size, and the peculiarity of its vascular

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arrangement, and reflect on its intimate connection, with the abdominal viscera & other parts, by means of its numerous sympathetic, as well as by its ligaments, blood vessels & ducts, we cannot be surprised that it should be, so often, the seat of disease.

Among the morbid affections, to which it is liable is inflammation. This may be seated either in its investing membrane, or in its parenchyma, and the symptoms, will be modified accordingly. In the first case will happen the phenomena of serous inflammation, such as, darting lancinating pain in the part, a hard, corded feel with much febrile excitement. In the second the pain will be obtuse, or of a throbbing kind; there will be greater disturbance in the function, of the organ, & more sallowness of the skin & eyes. It is probable, however, that inflammation is seldom confined to one of these tissues, exclusively.

Hepatitis, has been divided by authors into acute and chronic. The former is characterized by its violence, and the rapidity of its progress, while the latter is more slow and insidious, as its approach, and its storming, and its progress.

Acute hepatitis is brought on by the action of causes of the phlogogenic, such as external or internal, exposure to cold, violent exercise &c. But the most fruitful sources of the disease are a high stage of febrile action, and the inflammation of spirituous liquors. Heat is a powerful stimulus to the secretory capacity of the liver; exciting them to inordinate action, and subsequently leaving them in a state of debility. The application of cold in such circumstances, not only induces, obstruction in the organ, and possibly inflammation. Hence the sequelae occurring, the disease is more



as during the autumn. As the weather is
warm & that of the day is followed by cold eve-
nings. Ardent spirits operate in the same
manner as heat, producing at first high & cold
fever, which is succeeded by a state of ex-
cessive delirium & convulsions. The malady is said
to be seven weeks long, & is then followed by
convulsions, no doubt, to which, greater violence, and
their more ^{insupportable} nature.

Acute hepatitis, usually commencing with rigors,
succeeded by pain in the right hypochondrium,
shoots to the shoulder, heat of skin and con-
siderable pyrexia ensue, together with cough
& oppressed respiration and difficulty of lying
on the left side; the pulse is frequent and hard;
the tongue white and dry, with extreme thirst;
the stools are sometimes small & disturbed,
there is transient vomiting, the bowels are
constipated, and the sweat, when procured,



show a deficiency of bile; the urine is high col-
oured and sparingly secreted. Throughout the
case, the spirits are much depressed.

These symptoms, vary a ^{very} different degree in the
part of the organ affected. When its upper concave
surface, or the ligament, external, is affected with the
phlogon or inflammation, the case, however, is
sympomatic and more distressing and it has
in some cases, been mistaken for pneumonia
When on the contrary its concave portion is the
seat of disease, the stenosis is most distinct,
giving rise to many of the symptoms, of peritonitis.
By a careful examination however, a suffici-
ently clear diagnosis may be obtained. When
pneumonia is at its height, pushed, by the pain be-
ing lower down in the side, and its being increased
not by pressure under the false rib, & the weight
too, comes on much later than in pneumonia,
while the evacuation, indicates greater disease



Arrangement of the binary system then seen,
as another phenomenon. The position of the pair -
the extreme of the shoulder, together with the sub-
sidence of the spine with generally better general
of frame & habits. It may readily be distinguished
and from that of the binary stars, with which
it has been often, been compared, by the right
joints visible on the frequency of pain;
the permanency of ^{the} pain; and by the patient
being able to lie in a straight posture.

The disease most frequently is in vessels,
more or less suppurations. Its termination is also,
- which is doubtful to a partial subsidence of
pain and febrile symptoms, with a return
of the appetite, an improvement in the con-
- dition. At the same time, the event is often
- due to some critical discharge from the
skin, bowels, or kidneys, or by a hæmorrhage
from the nose or hæmorrhoidal vessels.



Suppurates, is a very common, result of the disease in hot climates, thus, as well as the abscess is announced by increase of pain, rigors, frequent full urines, hot dry skin &c. A heavy dull aneurysm in the part, instead of acute pain; evening fever, heat & flushing, &c. & a mixed stercoraceous discharge from the formation of matter.

The abscess when formed is variously discharged. If no adhesion, takes place with ease & pain, & part, it bursts into the cavity of the abdomen, & produces a peritoneal inflammation, which is most quickly fatal, in death. Sometimes, adhesion, is formed with the abdominal cavity, & the matter, & escapes externally at times, then discharges, into some portion of the intestines around & the pus & paper, off with the stool. The last are the most frequent abscesses, for the matter, & a frequent cure is said to have been effected in this way. Occasionally the matter,



matter, passes away through the trachea into
the lungs & is brought up by coughing; or else it
is effused into the cavity of the thorax, forming
empyema. The prognosis, in this case, is every
unfavourable, the recovery, however, has taken place
under these circumstances.

From the history which has been given of this dis-
-ease, the indications of cure are obvious; viz
to subdue inflammation, and to rectify the bilious
and secretions. Emulsion is evidently required,
as it must be used with freedom; repeating it
as often as it is denuded by the pain & the
state of the pulse. Topical bleeding is scarcely of the
importance. Cupping leeches are to be applied to
the sides, and may be continued, even when
the lancet, is no longer admissible. Having con-
sidered general & local blood-letting to a sufficient
extent, a large blister should next be placed
over the part, and may be either renewed,



or the blessed influence of the stupor on the same
stimulating agent. While we are employing these
means, purgatives, must not be omitted. One
of the most usual effects of inflammation, is to de-
range the function, of the organ in which it oc-
curs. This is the case in hepatitis, purgatives,
therefore, and particularly the mercurials, from
the property which they possess of counteracting the infla-
mory effect, and improving the hepatic secretion,
are invaluable remedies in the disease. Colic
should be given in large dose, and its operation
on the bowels, quickened by the neutral salts or
jelaf. In the hepatic colic, mercury is gene-
rally used to produce purgation in the early stage
of the disease. But this practice tho' perhaps
proper in those countries, is not admissible
here. As antivenereal to the foregoing measures, the
antiphlogistic regimen must be strictly enjoined.
The patient's food should consist of the light st-



stimulating, a whole, of diet &c. then, sweet, or sweet-
root-jelly, barley water, least water &c. - His drink,
should be of a cooling, nature, - & Remains &c. of
the water &c. By these means properly directed,
we will, eventually succeed in subduing the disease.
But should it prove obstinate, we must then re-
- sort to mercury, & a Sialogogue. It should be
given - until it affects the mouth slightly, a few
Jules Salivation is both desirable & necessary.
For the purpose one or two grains
of calomel, or three or four of the blue pill may
be given at bed-time. If we wish the mercury
- at action to be more speedily induced, we may
direct a leeches or two of the mercurial oint-
ment, to be rubbed into the inner-part of the
Thighs every night & morning, as soon as we
begin to see the pain, or complaint, & by the for-
- ward, the medicine should be discontinued
as it gives a dry reduced. By keeping him in



the, state for some time, the bilious secretion will be found to improve, the complexion to display a more healthy aspect, and in short, most of the unpleasant symptoms will disappear. Intermittent however, will occasionally occur, in which the disease will visit all our members in a burning state and suppuration. When this takes place, the mercury must be laid aside and the patient should be invited to the surface by the powerful action of mercurial, to the point its dose as the safe point, it should be opened, and never be suffered to discharge spontaneously. The patient will ^{have} require a more generous diet, and generally the secretion and the same motions will be necessary.

Cervical Syphilis may be either the result of the whole system, or it may arise as a sequel of infection, and be the result of some previous active inflammation. The form of the disease is well



crises on very imperceptibly, and sometimes even
leave the patient for a week or two without
not feeling the patient much improved, or
the patient on the verge of death, or even
the patient and the nurse are both dead.
These are cases related in which the liver is
inflamed, has been found, completely disorga-
nized, the no symptoms, during the patient's life
time, indicated disease in this part.

In most cases, however, a lower degree of inflammation pre-
sents themselves, which is the attack of liver
disease. The patient becomes insensible, and even
to any exertion of body or mind. He is conscious
of the distress and is highly particular of
her or his. The bowels are torpid and the
excretions when they are passed, are
foul; the urine is turbid depositing a white
sediment; the breath is very harsh; the complexion



complexion pale and sallow, the pulse is frequent
and often irregular, and the circulation of the
respiration is the same; still these three affec-
tions, the right side, the circulation, &c., confine
to the left; in other cases there is merely some
of one, but it is confined to the part. After time
the skin is dry, the pulse is, the appetite is, &c.
the tongue is heavily loaded, and flatulence
some evacuations, and other signs of im-
balance, &c. their appearance. The patient
soon becomes, gloomy and despondent, and
loses his relish for society. In the progress of
the disease the liver becomes increased in size,
and may be felt extending below the mas-
sary ribs. Not unfrequently the lungs at the
same time take on disease, either from the over-
crowded state of the lungs, or from a direct
invasion of the disease. There is then, much
difficulty of breathing, &c. &c. &c.



In cases strongly marked, as those in the other
indicated, the lungs are more or less affected,
pneumonia & pleurisy, which is a by product of
the disease, &c. The patient wastes, away as a
rule, with all the symptoms of a general
debility.

The causes of primary chronic hepatitis, are the
same as those of the acute species, but acting
more slowly & fully. Of these by far the most
general in its operation, is the habitual use
of intoxicating liquors. The injurious effects
of these articles on the liver is a subject of
such common observation, that a bilious
stomach & sallow complexion, are considered
as certain characteristics of the malady,
his faltering speech and unsteady gait.

When the disease succeeds the acute species, it is
in most cases, to be ascribed to the neglect of
certain precautions, or to the too early employ.





ed. This is a common effect of chronic inflammation in glandular parts, and is called the firm cicatrix has been affixed.

There are other affections of the liver, supposed to be
It is from chronic inflammation, which are of an
more firm than the normal. These are tubercles, which
occasionally occupy the greater portion of the organ,
giving it to the surface a rough, uneven appearance.

Hydatids are also sometimes found attached to
it, from which cysts are deeply seated in its substance.

The nature of this form, is not well understood;
they are supposed by the late Dr. to be a sort of
"infected granulation". In some cases they become
of an immense size, containing a considerable
quantity of fluid. Thomas has seen, in an instance
in a spleen, several of such a size as to have
been as large as the spleen itself in the liver.

There are also affections of the liver, in which the
liver is found on dissection that it is a kind



led by the same authorities, that there are a few
by which they can be distinguished from each
other, in the life of the subject. It is a great
truth that the enemy is a secret, but we can
not let our hearts be misled, from either
partial deposit, or any lighted, or from any
line. We this is left to be settled. I am con-
vinced, that all these offences, however dif-
ferent, must be considered with a view of
illumination, so that the mind be not
deceived, and thus the mind must stay.
We can, save if there are utterly unaccountable, so
that we could effect nothing more, if we
were of their existence.

The second principally to be noted in the
history of the church, is, that the
gospel, which is the light of the world, is
the power of the world, and the power of the
world is not generally the same.



the first must be determined by the state of the patient
+ the nature of the disease. Scapes to be cut, may be made,
immediately applied as long as there is pain, or
swelling in the part. There seems to be nothing
of a success, even if the scapes, or in any case, for
a permanent disease, even the scapes by a solution
of issue. The scapes are very important, they
are called for by the largest condition of the
liver & lungs, as well as by the enlarged state
of the vessels. The scapes should be procured by the exhibition
of its proper solution, taking it ac-
cording to the nature of the disease. In, in such cases,
it should be continued until the disease is removed
or a healthy appearance. The scapes, in such
cases, should be continued as a treatment in these
cases, & may be a useful remedy. It
is, indeed, in many cases, may employ with benefit the
scapes, in such cases, with the addition of an all-



alkali and some vomative. This treatment will generally prove successful in recent cases, and where the disease is functional. But if the structure of the liver has undergone any of the alterations before enumerated, it will as generally fail, and our chief reliance is to be placed on mercury. It must be introduced into the system in the most gradual manner, so as to obtain its alterative effects. During its use the morbid secretion, should be carried off, by giving occasionally, some mild purgatives. When the mercury proves ineffectual, or is considered inadvisable by the debility of the patient, the nitro-muriatic acid will be found a valuable substitute. It is used principally in the form of a bath, either general or applied to the lower extremities. "The nitro-muriatic acid bath, (says Dr. Scott) appears in a particular manner to affect the glands, and to alter their

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secretions; and on this, power a great part of its value, in derangements of the liver, seems to depend. It sometimes, very suddenly increases the secretions of bile; and this effect may be kept up for a length of time.

In addition to these active remedies, the diet of patient requires some attention. His food should be simple and plainly dressed; and he should be cautioned against exceeding the bounds of moderation, which he is apt to do, the appetite being often impaired. All crude, acrid, or irritating, food, as pastry, soup, oily meat, and highly seasoned dishes, must be prohibited.

The warm bath, succeeded by friction, is a useful auxiliary in the cure of this disease. It relaxes the internal organs, and by keeping up a moderate action on the skin, promotes the biliary secretion. —

